

WHAT IS CLAIMED IS:

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1. A transmitter assembly including a pre-distortion type linearizer correcting to mutually cancel a distortion component caused in a transmission signal and a correction data

5 component, comprising:

first storage means for preliminarily storing said correction data.

2. A transmitter assembly as set forth in claim 1, wherein
10 said first storage means manages correction data as table per transmission level.

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3. A transmitter assembly as set forth in claim 1, which further comprises:

15 second storage means having a plurality of table of said correction data per transmission frequency and environmental temperature; and

means for updating storage content of said first storage means with the corresponding table of said second storage means
20 when at least one of the transmission frequency and the environmental temperature is varied.

4. A distortion compensation method for a transmitter including a pre-distortion type linearizer correcting to
25 mutually cancel a distortion component caused in a transmission

signal and a correction data component, comprising steps of:
 reading out a value corresponding to a transmission level
 from a first storage means preliminarily storing said
 correction data; and

5 inputting the read out value to said pre-distortion type
linearizer.

5. A distortion compensation method as set forth in claim 4, wherein said first storage means manages the correction data in a form of table per transmission level.

6. A distortion compensation method as set forth in claim 4, wherein a storage content of said first storage means is updated with a corresponding table in said second storage means storing a plurality of tables storing said correction data per transmission frequency and environmental temperature when at least one of said transmission frequency and environmental temperature.

20 7. A transmitter assembly as set forth in claim 2, wherein an address corresponding to said transmission level and a correction data corresponding to said address are stored in said first storage means.

25 8. A transmitter assembly as set forth in claim 2, wherein

said transmission level is a sum of an alternating current voltage value corresponding to an instantaneous power of a transmission signal and a direct current voltage corresponding to a part of the power of transmission output signal.

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9. A transmitter assembly as set forth in claim 1, wherein said correction data is consisted of a predetermined amplitude value and a predetermined phase value of the transmission signal.

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10. A distortion compensation method as set forth in claim 5, wherein the address corresponding to the transmission level and the correction data corresponding to said address are stored in said first storage means.

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11. A distortion compensation method as set forth in claim 5, wherein said transmission level is a sum of an alternating current voltage value corresponding to an instantaneous power of a transmission signal and a direct current voltage corresponding to a part of the power of transmission output signal.

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12. A distortion compensation method as set forth in claim 4, wherein said correction data is consisted of a predetermined amplitude value and a predetermined phase value of the

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transmission signal.

13. A transmitter assembly including a pre-distortion type
linearizer correcting to mutually cancel a distortion
5 component caused in a transmission signal and a correction data
component comprising:

transmission signal generating means generating a base
band signal of an I signal and a Q signal; and

transmission means modulating and amplifying said
10 base band signal into an RF signal: and

said pre-distortion type linearizer being provided
between an output of said transmission signal generating means
and an input of said transmission means; and

directional coupling means dividing RF signal; and
15 power detecting means detecting said RF signal and
outputting a transmission level to address generating means;
and

power calculating means calculating an instantaneous
Power calculating of said base band signal to output to said
20 address generating means; and

said address generating means detecting an address of
data to be output by the first storage means from said
transmission level and said instantaneous power of said base
band signal; and

25 said first storage means for preliminarily storing said

14. A transmitter assembly as set forth in claim 13, wherein said first storage means manages correction data as table per transmission level.

second storage means having a plurality of table of said correction data per transmission frequency and environmental temperature; and

14. means for updating storage content of said first storage means with the corresponding table of said second storage means when at least one of the transmission frequency and the environmental temperature is varied.

16. A transmitter assembly as set forth in claim 14, wherein an address corresponding to said transmission level and a correction data corresponding to said address are stored in said first storage means.

17. A transmitter assembly as set forth in claim 14, wherein said transmission level is a sum of an alternating current voltage value corresponding to an instantaneous power of a transmission signal and a direct current voltage corresponding

to a part of the power of transmission output signal.

18. A transmitter assembly as set forth in claim 13, wherein said correction data is consisted of a predetermined amplitude value and a predetermined phase value of the transmission signal.

19. A distortion compensation method for a transmitter including a pre-distortion type linearizer correcting to mutually cancel a distortion component caused in a transmission signal and a correction data component, comprising steps of:

providing said pre-distortion type linearizer between an output of said transmission signal generating means and an input of said transmission means; and

dividing RF signal by directional coupling means; and detecting said RF signal and outputting a transmission level to address generating means by power detecting means; and

calculating an instantaneous power of said base band signal to output to said address generating means by power calculating means; and

determining an address of data to be output by the first storage means from said transmission level and said instantaneous power of said base band signal by said address generating means

inputting the read out value to said pre-distortion type
5 linearizer.

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22. A distortion compensation method as set forth in claim 20, wherein the address corresponding to the transmission level and the correction data corresponding to said address are stored in said first storage means.

23. A distortion compensation method as set forth in claim
25 20, wherein said transmission level is a sum of an alternating

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24. A distortion compensation method as set forth in claim 19, wherein said correction data is consisted of a predetermined amplitude value and a predetermined phase value of the transmission signal.